Metallized Polypropylene Film Capacitor
Related Document: IEC 60384-16

FEATURES
Product is completely lead (Pb)-free
Product is RoHS-compliant

CAPACITANCE TOLERANCES
± 10% (K), ± 5% (J), ± 2.5% (H), ± 1% (F)

RATED VOLTAGES ($U_R$)
160 VDC

PERMISSIBLE AC VOLTAGES (RMS) UP TO 60HZ
100 VAC

TEST VOLTAGE (ELECTRODE/ELECTRODE)
1.6 x $U_R$ for 2 s

INSULATION RESISTANCE
Measured at 100 VDC after one minute
100,000 MΩ minimum value

TEMPERATURE COEFFICIENT
- 25°C x 10^-6/°C (typical value)

MAXIMUM PULSE RISE TIME
dv/dt = 390 V/µs
If the maximum pulse voltage is less than the rated voltage, higher dv/dt values can be permitted.

DERATING FOR DC AND AC CATEGORY VOLTAGE $U_C$
At +85°C: $U_C = 1.0 \times U_R$
At +100°C: $U_C = 0.7 \times U_R$

SELF INDUCTANCE
~ 6 nH measured with 2mm long leads

PULL TEST ON LEADS
≥ 30 N in direction of leads according to IEC 60068-2-21

DIELECTRIC ABSORPTION
0.05% (typical value) acc. to IEC 60384-1

RELIABILITY
Operational life > 300,000 h
Failure rate < 5 FIT (40°C and 0.5 x $U_R$)

For further details, please refer to the general information available at www.vishay.com/doc?26033.
**MKP 1837**  
Vishay Roederstein  
Metallized Polypropylene Film Capacitor  
Related Document: IEC 60384-16

### Capacitance and Voltage Code

<table>
<thead>
<tr>
<th>Capacitance (µF)</th>
<th>Capacitance Code</th>
<th>Voltage Code 160 VDC/100 VAC</th>
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<tbody>
<tr>
<td>0.01</td>
<td>- 310</td>
<td>W 5.5 H 7.0 L 7.5</td>
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<td>0.015</td>
<td>- 315</td>
<td>W 5.5 H 7.0 L 7.5</td>
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<tr>
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<td>- 322</td>
<td>W 5.5 H 7.0 L 7.5</td>
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<td>0.033</td>
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<td>W 7.5 H 9.0 L 7.5</td>
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<tr>
<td>0.047</td>
<td>- 347</td>
<td>W 7.5 H 9.0 L 7.5</td>
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<td>0.068</td>
<td>- 368</td>
<td>W 7.5 H 9.0 L 7.5</td>
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<td>0.1</td>
<td>- 410</td>
<td>W 9.0 H 11.0 L 7.5</td>
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</table>

Further C-values upon request

### Recommended Packaging

<table>
<thead>
<tr>
<th>Letter Code</th>
<th>Type of Packaging</th>
<th>Height (H) (mm)</th>
<th>Reel Diameter (mm)</th>
<th>Ordering Code Examples</th>
<th>PCM 5</th>
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<tbody>
<tr>
<td>D</td>
<td>AMMO</td>
<td>16.5</td>
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<td>—</td>
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</table>

Permissible AC Voltage versus Frequency

Impedance versus Frequency $Z = f(f)$ (Lead length 2.0mm)
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